

AMENDMENTS TO CLAIMS

Agent for Applicant respectfully requests the following amendments to the claims without adding any new subject matter. Additions to the claims are underlined, while deletions therefrom are enclosed in double square brackets.

1. (Cancelled)
2. (Cancelled)
3. (Currently Amended) A digital pressure display as claimed in claim [[1]] 5 wherein said power means comprises a battery.
4. (Original) A digital pressure display as claimed in claim 3 wherein said battery is rechargeable.
5. (Currently amended) A digital pressure display for a vacuum regulator, the digital pressure display comprising:
 - (a) sensor means for intermittently sensing said pressure;
 - (b) microprocessor means to intermittently enable the operation of said sensor means to sense said pressure at predetermined sampling intervals and generate a signal; and
 - (c) power means to power said sensor means and said microprocessor means for generating a digital pressure reading;
wherein the sensor means sensing said pressure at predetermined sampling intervals reduce power requirements.
 - (d) ~~A digital pressure displays as claimed in claim 1 further including a light~~
sensor for sensing a dark condition so as to terminate the generation of said digital pressure reading during said dark condition, and wherein the predetermined sampling interval is changeable during adjustment of the vacuum regulator.
6. (Previously presented) A digital pressure display as claimed in claim 3 further including a light sensor sensing a dark condition so as to terminate the generation of said digital pressure reading during said dark condition.

7. (Previously presented) A digital pressure display as claimed in claim 3 including circuitry means having a solar power cell to recharge said battery.

8. (Cancelled).

9. (Previously presented) A digital pressure display as claimed in claim 3 wherein said digital display is replaceable with a needle dial display.

10. - 17. (Cancelled).

18. (Currently amended) A digital pressure display for a vacuum regulator, the digital pressure display comprising:

- (a) a manual pressure control valve operable by an operator to adjust a vacuum pressure;
- (b) a vacuum pressure sensor operable to sense the vacuum pressure, and to produce a pressure signal;
- (c) the operation of a sensor means intermittently enabled by a microprocessor means at predetermined sampling intervals operable to sample said pressure signal generated by said vacuum pressure sensor and generate sampling signals, the predetermined sampling interval is changeable by operation of the manual pressure control valve;
- (d) an electrically powered pressure display circuit communicating with the digital pressure display, for receiving said sampling signals and generating a visible digital pressure display; and

a power means connected to said microprocessor means, said sensor means for sampling said vacuum pressure sensor, said display circuit and said digital pressure display.

19. (Previously presented) The digital pressure display as claimed in claim 18 and including a no-pressure signal generator for generating at least one no-pressure signal representing an absence of treatment vacuum pressure, and an alarm signal generator,

and an alarm responsive thereto, operable in response to a no-pressure signal to generate an alarm.

20. (Previously presented) The digital pressure display as claimed in claim 19 and wherein said control valve is manually operable to adjust said vacuum pressure so as to maintain a desired level of vacuum pressure.

21. - 27. (Cancelled).

28. (Previously Presented) A digital pressure display for an adjustable pressure regulator, the digital pressure display comprising:

- (a) sensor means for intermittently sensing said pressure;
- (b) microprocessor means to intermittently enable the operation of said sensor means to sense said pressure and generate a signal at predetermined sampling intervals;
- (c) power means to power to said sensor means and said microprocessor means; and
- (d) a display means operable to display a pressure signal in response to said signal

wherein the power means power said sensor means and said microprocessor means; and wherein the predetermined sampling interval is changeable during adjustment of the pressure regulator.

29. (Currently Amended) The digital pressure display as claimed in claims [[1]], 18 and 28 including a controller said controller connected to said sensor means and operable to temporarily increase the rate of sampling intervals, during adjustment of the regulator.

30. (Previously presented) A digital pressure display as claimed in claims 18 and 28 wherein said power means comprises a battery.

31. (Previously presented) A digital pressure display as claimed in claim 30 wherein said battery is rechargeable.

32. (Previously presented) A digital pressure display as claimed in claim 30 further including a light sensor for sensing a dark condition so as to terminate the generation of said digital pressure reading during said dark condition.

33. (Previously presented) A digital pressure display as claimed in claim 30 further including a light sensor sensing a dark condition so as to terminate the generation of said digital pressure reading during said dark condition.

34. (Previously presented) A digital pressure display as claimed in claim 30 including circuitry means having a solar power cell to recharge said battery.

35. (Cancelled).